KORG



SIGNAL PROCESSOR MS-03

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1. SPECIFICATIONS

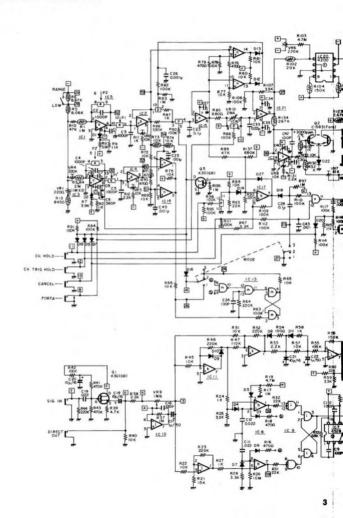
1. CONTROL SECTION • Input signal level

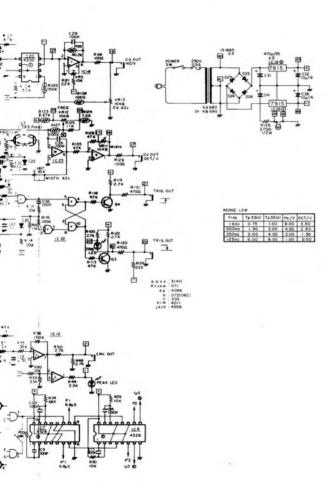
- Range switch (Low: 75~1400 Hz.
- Hi: 150~2800 Hz) Mode switch
- Portamento time
- CV hold
- · CV & Trig hold
- · Cancel switch
- OCT/V frequency adjust
- (±600 cent)
- OCT/V width adjust (0.9~1.1V/OCT)
- Power switch
- Portamento switch

2. INPUT & OUTPUT

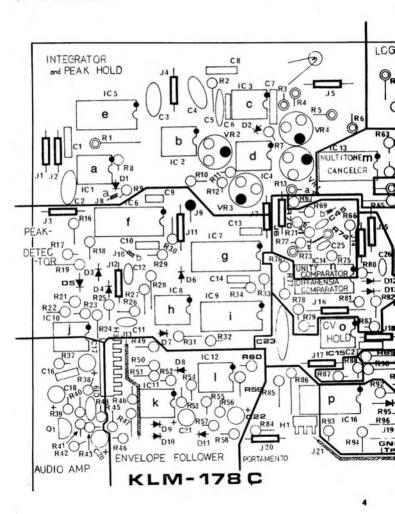
- · Signal In (auto pad system) (line level ~ mic level)
- CV out (Hz/V)
- CV out (OCT/V)
- Trig out Law
- Trig out __fano • Env. out
- Direct out 3. INDICATOR (LED) Peak indicator
- 4. POWER CONSUMPTION
- Trigger indicator • 5W

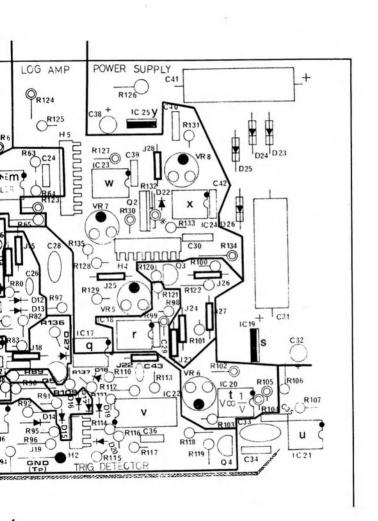
2. CIRCUIT DIAGRAM





3. PC BOARD

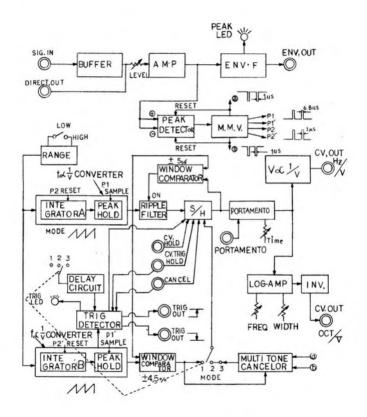




4. PARTS LIST (Mechanical parts not listed)

TL 071 072 CA3140E RC4200 339 4011 MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X X X X X X X X X
072 CA3140E RC4200 339 4011 MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A	X X X X X X X X X X
CA3140E RC42000 339 40111 MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X X X X X X
RC4200 339 4011 MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A	X X X X X X X X X
339 4011 MC14086 4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X X X X DLDEI
4011 MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X X X X X X X X X X X X X X X X
MC14066 4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X X X X X X X X X X X X X X X X
4528 4558 7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	X X X X LAM X
4558 7815 7815 9 PILOT 14V 0.04A • LAMP HC BFE-R	LAM
7815 7915 • PILOT 14V 0.04A • LAMP HC BFE-R	LAM
7915 • PILOT 14V 0.04A • LAMP HC BFE-R	LAM X
PILOT 14V 0.04A • LAMP HO BFE-R	LAM
• LAMP HO BFE-R	x DLDEF
• LAMP HO BFE-R	x DLDEF
• LAMP HO	DLDEF
BFE-R	
BFE-R	
	X 1
● PC B	
● PC B	
KLM-178C	x 1
CONNEC	
MS-0301	
MS-0302	
MS-0303	x 1
MS-0304	x 1
TRC-100	x 1
ṁ 3P	x 1
4 4P	x 1
7P	x 1
8P	x 1
9P	x 1
POWER TRANSFOR	RMER
	x 2
, , , , , , , , , , , , , , , , , , ,	
	MS-0303 MS-0304 TRC-100

5. BLOCK DIAGRAM



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6. ADJUSTMENT PROCEDURE

Settings MS-03						
Sig in	-	WT-10A out or Freq. OSC				
CV out	-	Digital voltmeter (4-1/2)				
Range	-	Low				
Peak	-	On				
ettings WT-10A						
Sound/meter SW	-	Sound				
Chromatic Dial	-	В				
Meter	-	+20 cent				

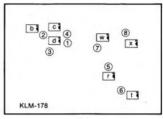


Fig. 1

- Turn CV OUT Hz/V ADJUST knob at the rear panel all the way clockwise to the KORG CV position.
- ◆ Please refer to fig.-1 concerning Adjust Vr. No.
- The value indicated in () show you frequency and voltage which you get when you put Frequency OSC into the Sig.—In.
- · Please refer to the circuit diagram regarding Test Point No. (TP).
- You must make adjustment again and again until you get the same value of Output Voltage indicated in the list below.
- Please note this adjustment process is mentioned when WT-10A is used.

	WT-10A OCT		TP	Digi.Vol. (4-1/2)		Adjust Vr. No.	Note	
	(1 kHz)	Н	18	(8.00V)	8.00V	6	Accuracy:	
Hz/V	(500 Hz)	M	18	(4.00V)	4.00V	1	- 10 cent + 5 cent	
	(250 Hz)	L	18	(2.00V)	2.00V	5		
	(250 Hz)	L	17	(1.50V)	1.50V	Freq. Vr → 0		
OCT/V	(1 kHz)	Н	17	(3.50V)	3.50V	8		
	(500 Hz)	М	17	(2.50V)	2.50V	7		
Peak Hold-1	(125 Hz)	L	53	(6.00V)	3.00V	1	When you cannot make adjustment, please make it as indicated in the list on the left.	
Peak Hold-1	(125 Hz)	L	34	(3.00V)	1.50V	1		
Peak Hold-1	(1 kHz)	н	34	(0.375V)	0.375V	2		
Peak Hold-2	(125 Hz)	L	33	(3.00V)	1.50V	4		
Peak Hold-2	(1 kHz)	н	33	(0.375V)	0.375V	3		
	(125 Hz)		35	(8.00V)			1	
V ∞ 1/V	(250 Hz)	L	35	(4.00V)	4.00V	Check		
V 0. 1/V	(500 Hz)	М	35	(2.00V)	2.00V			
	(1 kHz)	н	35	(1.00V)	1.00V			